

Table 3.9-1**Wetland types, NWI code, and area of each type found on the True North mining claims**

Wetland Type	NWI Code	Area		Percent of Total
		Hectares	Acres	
Intermittent Stream	R4 SB C	1.11	2.74	0.02
Upper Perennial Stream	R3 UB H	12.36	30.54	0.17
Pond	P UB H	10.95	27.06	0.15
Pond (Impoundment)	P UB Hh	5.16	12.75	0.07
Graminoid Marsh	PEM 1 H	0.89	2.20	0.01
Floating Mat	PEM 1 F	5.56	13.74	0.08
Shrub/Sedge Bog/Floating Mat	PEM 1 F//PSS 4 B	11.73	28.98	0.17
	PSS 3/EM 1 F	19.90	49.17	0.28
Shrub Swamp	PSS/EM 1 F	0.83	2.05	0.01
Riparian Deciduous Shrub	PEM 1 C	0.70	1.73	0.01
	PSS/EM 1 C	26.67	65.90	0.38
	PSS 1 C	31.19	77.07	0.44
Riparian Ericaceous Shrub	PSS 3 C	9.76	24.12	0.14
Deciduous Shrub	PSS/EM 1 E	6.19	15.30	0.09
	PSS 1 B	85.97	212.43	1.21
	PSS 1 E	21.69	53.60	0.31
Deciduous Shrub/Dwarf Black Spruce Scrub	PSS 1/4 E	64.55	159.50	0.91
Ericaceous/Deciduous Shrub	PSS 1/3 B	46.32	114.46	0.65
	PSS 3/1 B	97.45	240.80	1.37
	PSS 3 B	29.88	73.83	0.42
Shrub/Sedge Bog	PEM 1 B	13.93	34.42	0.20
	PSS/EM 1 B	23.26	57.48	0.33
	PSS 3/EM 1 B	83.41	206.11	1.17
Dwarf Black Spruce Scrub/Deciduous Shrub	PSS 1/4 B	9.94	24.56	0.14
	PSS 4/1 B	125.25	309.49	1.76
	PSS 4/EM 1 B	34.02	84.06	0.48
Dwarf Black Spruce Woodland/ Ericaceous Shrub	PSS 3/4 B	529.15	1307.53	7.44
	PSS 4/3 B	748.08	1848.50	10.52
	PSS 4 B	214.02	528.84	3.01
	PSS 5/3 B	9.27	22.91	0.13
Black Spruce Forest/Scrub Shrub	PFO/SS 4 B	461.78	1141.06	6.49

Table 3.9-1**Wetland types, NWI code, and area of each type found on the True North mining claims (cont'd)**

Wetland Type	NWI Code	Area		Percent of Total
		Hectares	Acres	
Black Spruce Forest Mixed Spruce/Deciduous Forest	PFO4/SS 1 B	207.70	513.23	2.92
	PFO4/SS 3 B	266.48	658.47	3.75
	PFO 4 B	280.44	692.97	3.94
	PFO 1/4 B	29.75	73.51	0.42
Broadleaf Forest	PFO 1/SS 4 E	8.37	20.68	0.12
	PFO 4/1 B	22.33	55.18	0.31
	PFO 1 D	4.05	10.01	0.06
	PFO 1/SS 3 B	60.66	149.89	0.85
Barren/Partially Vegetated	PEM 1 E	4.03	9.96	0.06
	PSS 1/USC	3.94	9.74	0.06
	PUS C d	0.81	2.00	0.01
Disturbed Wetland/Upland Complex	U//PSS 1 C//PEM 1 E	18.21	45.00	0.26
	U//PSS 4/EM 1 B	26.66	65.88	0.37
Upland ¹	U	3,435.69	8,489.59	48.32
Total Area		7,110.09	17,569.03	100.00

¹ Includes ~ 60.6 ha (150 acres) of non-wetland disturbed areas

3.10 SURFACE DISTURBANCE

Based on the vegetation analysis of the True North project area conducted by ABR, Inc. from 1995 to 1998 (Table 3.9-1), human disturbance has occurred on approximately 253 acres (105.5 ha), or 1.5 percent of the area, largely from previous mining activity, including placer mine tailings and ponds in Eldorado and Dome creeks (Anderson et al., 1998). The major portion of existing disturbance within the mine permit area is located in the vicinity of the Hindenburg and East pits.

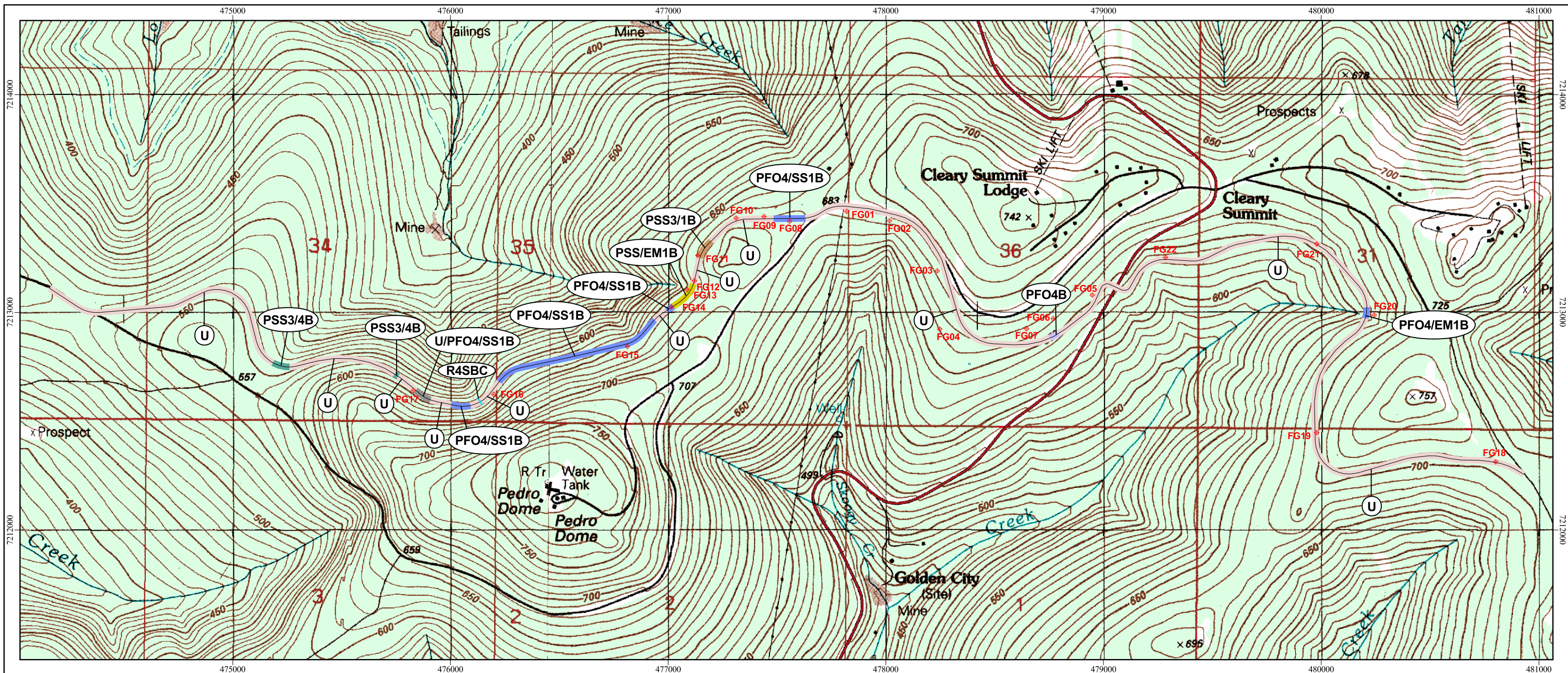
3.11 FISH

The proposed mine site is located on a ridge that drains south and southwest into Murray Creek, a tributary of Dome Creek, and to the west into Spruce Creek and to the east into Louis Creek, respectively, both tributaries of Little Eldorado Creek to the north. Both Dome and Little Eldorado creeks flow into the Chatanika River.

Upper Dome Creek, both above and below its confluence with Murray Creek, was historically placer mined and now flows through and around old tailings piles and ponds. Spruce Creek has had no significant influence from mining. Lower Louis Creek, as well as upper Little Eldorado Creek, also were historically placer mined and the creeks also flow through and around old tailings piles and ponds.

The only stream near the proposed mine site that is designated as anadromous is the Chatanika River itself, approximately 3 miles from the proposed mine site at its closest point to the north (Alaska Department of Fish and Game [ADFG], 1998).

The stretch of the Chatanika River in the vicinity of the project area supports chinook (king) salmon, spawning and rearing Arctic grayling (*Thymallus arcticus*) as well as round whitefish rearing (*Prosopium cylindraceum*), sheefish spawning (*Stenodus leucichthys nelma*), and broad whitefish (*Coregonus nasus*), humpback whitefish (*Coregonus clupeaformis*), and least cisco (*Coregonus sardinella*) (ADFG, 1986).






NWI Class

Wetland Type

	R4SBC	Intermittent Stream
	PSS/EM1B	Open Tall Alder Shrub
	PSS3/1B	Open Tall Birch Shrub
	PSS3/4B	Open Dwarf Black Spruce Forest
	PFO4/EM1B	Black Spruce Woodland
	PFO4/SS1B, PFO4B	Open Black Spruce Forest
	U/PFO4/SS1B	Upland/Black Spruce Woodland
	U	Upland

Map Key

	Field Delineation Site
	Proposed Road Centerline
	100-foot Proposed Road Corridor

Road alignment from Fairbanks Gold Mining, Inc. AutoCAD file
Base map: USGS 1:24,000 DRG, Livengood A-1 SW and A-2 SE
Projection: UTM-6; Datum: Nad27
Grid: 1,000 meters



Fairbanks Gold Mining, Inc.

**Figure 3.9-2 Wetland types along
proposed True North ore haul road**



12 September 2000

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